

# CLEANING BRUSH WITH WATER-MAINTAINING EFFECT

## BACKGROUND OF THE INVENTION

The present invention is related to a cleaning brush, and more particularly to a cleaning brush for cleaning human skin. The cleaning brush has water-maintaining effect and is designed with various patterns.

U.S. Patent No. 5,758,386 of this applicant discloses a cleaning brush structure which includes a main body made of resilient mesh tube having a neck section. The upper side of the neck section is formed with a first expanding section, while the lower side of the neck section is formed with a second expanding section. Such structure is like two overlapping spherical bodies and can be easily held when used. However, when holding the first expanding section to rub a user's body with the second expanding section, the second expanding section will uncertainly deflect around about the neck section. Furthermore, such structure is too compact and the expanding sections are too regularly shaped so that it is hard to snugly attach the structure to the skin and the user may feel uncomfortable when using the cleaning brush. Such structure is unable to maintain water. After a period of use, it is necessary to again dip the bathing ball into water. Moreover, when a bathing cream is also used to clean the skin, such structure is unable to maintain water so that when rubbing the skin with the bathing ball, it is hard to create lathers.

## SUMMARY OF THE INVENTION

It is therefore a primary object of the present invention to provide a cleaning brush having simple structure and water-maintaining effect.

It is a further object of the present invention to provide the above cleaning brush which is designed with various patterns and also has massaging effect.

According to the above objects, the cleaning brush with water-maintaining effect of the present invention includes: a resilient main body having a neck section, a first expanding section formed on upper side of the neck section and a second expanding section formed on lower side of the neck section; and a fitting member made of water-absorbent material and having an opening. The fitting member is fitted around the first expanding section to tightly enclose a predetermined portion of the first expanding section. The water-absorbent fitting member is able to maintain the water contained in the first expanding section and the fitting member.

The present invention can be best understood through the following description and accompanying drawings wherein:

## BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a perspective assembled view of a preferred embodiment of the cleaning brush of the present invention;

Fig. 2 is a plane sectional view of the preferred embodiment of the cleaning brush of the present invention;

Fig. 3 is a perspective exploded view of another embodiment of the cleaning brush of the present invention; and

Fig. 4 is a plane sectional view of still another embodiment of the cleaning brush of the present invention.

#### DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Please refer to Figs. 1 and 2. The cleaning brush with water-maintaining effect of the present invention includes a resilient main body 10 and a fitting member 20 fitted on the main body 10.

The main body 10 is made of a mesh tube with a certain length and resilience. When manufactured, the mesh tube is axially compressed to crimp the periphery. Predetermined portions of the mesh tube are then bound and fixed by several binding members to form a neck section 11. The upper end of the neck section 11 is formed with a first expanding section 12, while the lower end of the neck section 11 is formed with a second expanding section 13. The first expanding section 12 regularly expands and has a form of a sphere about an axis. The second expanding section 13 freely expands and is irregularly waved and petal-shaped. Practically, the resilient

main body 10 can be composed of at least two mesh tubes serially connected or fitted with each other.

The fitting member 20 is a casing having a predetermined thickness and an opening 21. The casing is made of water-absorbent material such as sponge, cotton fabric and unwoven fabric. The casing can be designed with various patterns.

When assembled, the first expanding section 12 is fitted through the opening 21 into the fitting member 20. The fitting member 20 tightly encloses the first expanding section 12. A binding member 22 is used to tightly bind the opening 21 on the neck section 11 without detachment. After the cleaning brush 1 is wetted, a certain amount of water is confined in the fitting member 20 so as to prolong the losing time of the water. In addition, the fitting member 20 itself has water-absorption function so that the cleaning brush 1 can have better water-maintaining effect. The casing 20 can be designed with various patterns so as to attract consumers.

Fig. 3 shows another embodiment of the cleaning brush 1 of the present invention, in which the fitting member 20 is made of elastic material such as rubber and foam sponge. Multiple protuberances 23 are formed over the outer face of the fitting member 20. The cleaning brush 1 further includes a handle 30 formed with a through hole 31 in a predetermined position. When assembled, the first expanding section 12 is compressed to pass through the through hole 31, whereby the handle 30 is fitted around the neck section 11 of the resilient

main body 10. Under such circumstance, the first and second expanding sections 12, 13 are respectively positioned on upper and lower sides of the through hole 31. Then, as in the above embodiment, the fitting member 20 is fitted on the first expanding section 12. The fitting member 20 is formed with the protuberances 23, whereby a user can knock a part of his/her body with the fitting member 20 so as to massage the part. Alternatively, the user can press the fitting member 20 against a part of his/her body and rub and massage the part. The protuberances 23 contact with the skin at points so as to achieve massaging effect.

Fig. 4 shows still another embodiment of the present invention, in which a water-absorbent layer 24 is additionally disposed on inner face of the fitting member 20. The water-absorbent layer 24 is made of water-absorbent material such as sponge, cotton fabric and unwoven fabric. When assembled, the water-absorbent layer 24 is first placed between the first expanding section 12 and the inner face of the fitting member 20 to tightly enclose the first expanding section 12. Accordingly, the fitting member 20 can be made of a material without water-absorbent effect. By means of the water-absorbent layer 24, a water-maintaining effect can be still achieved.

According to the above arrangement, the cleaning brush of the present invention has the following advantages:

1. The cleaning brush of the present invention is able to

prolong the losing time of water so as to achieve water-maintaining effect. When using a bathing cream to clean human body, with the cleaning brush, it is easier to rub a user's body to create lathers. It is unnecessary to many times dip the cleaning brush into water so that it is convenient to use the cleaning brush.

2. The cleaning brush of the present invention is designed with various patterns so as to attract consumers. Moreover, the cleaning brush also has massaging effect.

The above embodiments are only used to illustrate the present invention, not intended to limit the scope thereof. Many modifications of the above embodiments can be made without departing from the spirit of the present invention.